

PARTNER NAME

STATE

ZIP

**ADDRESS** 

CITY

#### AGRICULTURAL RESOURCE MANAGEMENT SURVEY

# BARLEY PRODUCTION PRACTICES AND COSTS REPORT





U.S. Department of Agriculture, Rm 5030, South Building 1400 Independence Ave., S.W. Washington, DC 20250-2000 Phone: 1-800-727-9540 Fax: 202-690-2090

								ax: 202-690- mail: nass@i	2090 nass.usda.gov
VERSION		ID		TRACT	SUBTRACT	T-TYPE	TABLE	LINE	
2				01		0	000	00	ECONDMIC RESEARCH SERVICE
							•	•	
DATE	TIME		CO	ONTACT F		IOTEO			
DATE	TIME				N	IOTES			
_	ON: self, and ask for the ag information on p	•			-	our help to r	make the info	ormation a	is accurate as
possible. Autho Code. This info Under Title 7 of	ority for collection of rmation will be used the U.S. Code and ses. Response is	f informatio d for econd l CIPSEA (l	on on the Barle omic analysis a Public Law 10	y Producti and to com	ion Practices a	and Costs F sh estimate	Report is Titles s for vour re	e 7, Section and	on 2204 of the U.S. the United States.
We encourage y	you to refer to your	farm recor	ds during the i	nterview.					
							BEGINNIN [MILIT)		<b>H H M M</b>
							[,		SCREENING BOX
									0006
□ [Manas of	☐ [Name, address and partners verified and updated if necessary]								
	aress and partne	rs verified	ana upaated						
POID					POID PARTNER NAM	 F			
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CITY	STATE	ZIP	PHONE NUM	MBER C	CITY	S	TATE ZIP		PHONE NUMBER
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PARTNER NAME

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PHONE NUMBER

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Α

# **BARLEY FIELD SELECTION**

Л
м

			TOTAL PLANTED ACRES
			0050
1.	How many acres of barley did this operation plant for the		•
	[If no acres planted, review Screening Survey Information Fort then go to item 4 on back page.]	m, make notes,	
	Of the total (item 1), how many acres were planted for		
			0051
	a. feed barley?		0052
	b. malt barley?		
2.	I will follow a simple procedure to make a random selection for the 2011 crop.	on from the barley fields planted	
			TOTAL NUMBER OF FIELDS PLANTED
	What is the TOTAL number of barley fields that were plant		0020
	[If only one field, enter "1" and go to item 5.]		
	[If there are more than 18 fields, make sure item 2 is <b>TOTAL</b> fields planted an operator's permanent residence. If respondent is unable to identify or describe Grid Supplement.]	-	
	FIELD NAME, NUMBER OR DESCRIPTION	FIELD NAME, NUMBER OR	DESCRIPTION
1		10	
2		11	
3		12	
4		13	
5		14	
6		15	
7		16	
8		17	
9		18	

	APPLY "RANDOM NUMBER'	' LABEL HERE	
4.	the last numbered field in item 3. Se	e pair of numbers on the above label associated with elect the field according to the number you circled on ember. If only one field, enter 1.]	0021
5.	The field selected is	(field name/number/description).	
	During this interview, the barley qualities [Be sure the operator can identify the self-	uestions will be about this selected barley field. lected field.]	
			OFFICE USE OY Field Substituted

_
О.

					ACRES
1.				1301	, I
	plant in this field for the 2011 (	crop?		I	
					2225
		1 feed?		1324	CODE
	a. Was this field planted for	2 malt?			
					CODE
				1300	
	b. Are the acres in this field <b>CE</b>	RTIFIED ORGANIC?	YES = 1		
	[If YES, skip 1c and ask item	2.]			CODE
				1399	0002
	c. Was this field transitioning in	to organic barley production in 2011?	YES = 1		
		1 owned by this operation?			CODE
		2 rented for CASH with the payment being a fixed		1302	OODL
2.	Were the acres in this field	<ul><li>3 rented for CASH with the payment being a flexib</li><li>4 rented for a SHARE of the crop?</li></ul>	e cash amount?		
		5 rented for some combination of CASH and SHAR 6 used RENT FREE?	RE of the crop?		
		o document incl.			
					ARS & CENTS ER ACRE
3.	[If field is CASH RENTED (item 2	2 = 2, 3, or 5), ask item 3; else go to item 4.]		1303	
	What was the cash rent paid p	er acre for this 2011 barley field?			•
1	[If field is SHARE RENTED (item	2 – 4 or 5) ask 1		P	ERCENT
4.	•	of the crop from this field?		1304	
	What was the landiold's shale	of the crop from this new :			
5.	[If field is RENTED (item 2 = 2, 3	, 4, or 5) <i>, ask</i> ]			
		inputs provided by any landlord	DOLLARS & CENTS PER ACRE OF	₹ TOT	AL DOLLARS
	such as seed, fertilizer, chemicals, techn	ed field? (Include the costs for all inputs, ical services, custom operations, and irrigation.	1305	1306	
	Exclude real estate tax expenses and lir	ne costs paid by the landowner.)	•		
			DOLLARS & CENTS		
6.		inputs provided by any contractor	PER ACRE OF		AL DOLLARS
		ed field? (Include the costs for all inputs, ical services, custom operations, and irrigation.)	1309 •	1310	
				M	IM DD YY
				1308	
7	On what date was this field pla	nted?		1	

	a.	When planted, was this barley field planted with the intention of ( <i>Include</i> barley planted for commercial seed contract under other uses.)	<ul><li>1 Dual purpos</li><li>2 Harvesting</li><li>3 Grazing onl</li><li>4 Cover crop</li><li>5 Other uses</li></ul>	?	]	<b>CODE</b> 1307
	b.	What was your yield goal at planting for this field	?			BUSHELS PER ACRE
8.	Wa	s the source of the barley seed		1 Purchased? 2 Homegrown or tr 3 Both?	aded?	<b>CODE</b> 1317
	a.	[If item 8 = 2 or 3, ask]				PERCENT
		How much of the barley seed planted in this field was grown (or received in trade) by this operation	n?			1318
				10		DOLLARS & CENTS PER BUSHEL
		(i) What was the cost per bushel for cleaning ar	nd treating thi	s seed?		·——
9.	[If a	any seed purchased (item 8 = 1 or 3), ask]			DOLLARS & CENTS PER UNIT	UNIT CODE  1 = POUND 2 = CWT 3 = TON 4 = BUSHEL 22 = ACRE 23 = 50 LB BAG
		at was the total cost per unit (including both yourchased seed for this field? (Include cost of see			1319 	1320
					UNITS PER ACRE	UNIT CODE  1 = POUNDS 2 = CWT 3 = TONS 4 = BUSHELS 23 = 50 LB BAGS
10.	Wh	at was the seeding rate per acre the first time	this field wa	s planted?	1313	1314
11.		w many acres in this field had to be replanted	-			ACRES
	(Acr	es replanted = Number of acres x Number of times replante	∂α)			•
40	\A/-	a atmoss hamicated from this field				CODE
12.		s straw harvested from this field? YES – [Enter code 1 and continue]	- [Go to item	14]		1354

					ACRES
					1355
13.	Ho	w many acres of barley straw were harvested fron	n this barley field?		
					TOTAL TONS
	a	How many <b>tons</b> of barley <b>straw</b> were harvested from	n these harley (item 1	(3) acres?	1356
	u.	·	• `	•	
		Tons per Acre X Acres = Total Tons OR Bales	X Lbs per Bale ÷	$\frac{2000}{\text{Lbs per Ton}} = {\text{Total Toi}}$	_ ns
					OR TONS
	D.	Of the total barley straw harvested from this barley fi (item 13a), what was the landlord's share of the barley		1357	1350
		(nom roa), what was the landista s share of the same	oy ollawiii ii		TOTAL DOLLARS
	C.	What was the total cost of baler twine/wire used to ba	ale the barley straw		1359
	•	from this barley field? (Include landlord's share.)			
					DOLLARS & CENTS
	d.	Was any barley straw sold?			PER TON
		If yes, what was the price received per ton for all bar			1360
		sold from this barley field?			
					CODE
					1328
14.	Has	s harvest of this field been completed?		YES	= 1
15.	No	w I need information about the acres harvested (o	r to be harvested) <b>an</b>	d the yields from this	s field.
				1	2
				What	UNIT CODE
	u.,	w many sores in the barloy		yield per acre	1 POUNDS
		w many acres in the barley d were ( <i>or will be</i> )		did you (or do you	2 CWT
				expect to) get for barley	3 TONS 4 BUSHELS
			ACRES	UNITS PER ACRE	CODE
			1346	1347	1348
	a.	harvested for grain?		•——	10.10
	b.	harvested for hay, silage or green chop?	1349	1350	TONS
	υ.	Trial vested for may, sliage or green chop?	1431	1432	1433
	c.	harvested for commercial seed contract?	.	•	1433
	٦	abandoned?	1351	,	
	d.	aballuoneu?	1439		
	e.	used for some other purpose?			
			<u>.</u>		<u> </u>
					CODE
16.	Did	l any livestock graze this barley field during the 20	011 crop year?		1400
		YES - [Enter code 1 and continue]	o to item 18]		
		Γ	4 Cattle		
		at type of livestock grazed this barley field	1 Cattle		CODE
	dui are:	ring the 2011 crop year? (Include livestock ting before barley harvest and livestock "grazing-out"	2 Sheep		1361
		field instead of harvesting barley.)	3 Other [Specify:	]	
					HEAD
					<b>HEAD</b> 1362

		DAYS
		1363
b.	How many days did this livestock graze on this barley field?	
		CODE
		1330
c.	Was this barley field "grazed-out" instead of harvested for grain? YES = 1	
		CODE
d.	Was payment received from others for livestock grazing on this field?	1364
	☐ YES - [Enter code 1 and continue] ☐ NO - [Go to item 18]	
		TOTAL DOLLARS
		1365
	(i) What is the total dollar amount received? (Include landlord's share.)	

	CROP CODE LIST for item 18 – PREVIOUSLY PLANTED CROPS							
190	Barley	3	Dry Beans	21	Rice	193	Tobacco, burley	
85	Canola	17	Dry Peas	22	Rye	196	Tobacco, flue cured	
310	Clover	311	Grasses other than clover	98	Safflower	42	Vegetables	
6	Corn for grain	1	Hay, alfalfa	25	Sorghum for grain	163	Wheat, durum	
5	Corn for silage	11	Hay, all other	24	Sorghum for silage	164	Wheat, other spring	
282	Cotton, Pima	94	Mustard Seed	26	Soybeans	165	Wheat, winter	
281	Cotton, Upland	15	Oats	28	Sugarbeets			
302	CRP	16	Peanuts	30	Sunflowers	318		
		20	Potatoes	31	Sweet Potatoes		during this period	

## 18. Next, I need to know what crops were previously PLANTED on the majority of this field, including cover crops.

1			2			
What crops were PLANTED on this field in						
SEASON AND YEAR	CROP NAME	CROP CODE	YES = 1			
a. <b>FALL of 2010?</b>		1343	1345			
b. SPRING/SUMMER of 2010?		1369	1371			
c. <b>FALL of 2009?</b>		1372	1374			
d. SPRING/SUMMER of 2009?		1375	1377			
e. <b>FALL of 2008?</b>		1378	1380			
f. SPRING/SUMMER of 2008?		1381	1383			
g. <b>FALL of 2007?</b>		1366	1368			
h. SPRING/SUMMER of 2007?		1340	1342			

<sup>1/</sup> Soil and previous crop residue left undisturbed from harvest to planting.

**DOLLARS & CENTS** 

_		PER ACRE
i.	[If a cover crop was planted in Spring/Summer/Fall 2010, ask]	1468
	What was the seed cost per acre for the cover crop?	·

## 19. In 2011, did your land-use practices for this field include any of the following---

1  LAND-USE PRACTICE	2 Was this practice used?	3 What year was this practice first used?	4 Was (or will there be) an incentive or cost-share received from:  1 Environmental Quality Incentives Program (EQIP)?  2 Conservation Security or Conservation Stewardship Programs (CSP)?
	YES = 1	YEAR	3 Conservation Reserve Program (CRP)? 4 Any other Federal, State, Local or non-government source?  CODE
o Structures for sail areains control?	1421		
a. Structures for soil erosion control?	1420	1441	1451
(i) Terraces	1420	1 <del>44</del>   	1401
	1422	1442	1452
(ii) Grade stabilization structures			
b. Structures for storm water runoff control/handling?	1423		
z. c. z.	1438	1443	1453
(i) Grassed waterways			
(ii) Structures for water control basins	1424	1444	1454
	1425		
c. Filter strips or other conservation buffers?	4.400	4445	4455
(i) Filter strips	1426	1445	1455
(/	1427	1446	1456
(ii) Field borders			
(iii) Riparian buffers ( <i>i.e., grass buffers</i> )	1428	1447	1457
() . (tparial) salioto (1.0.), graso salioto)	1435		
d. Other Practices?			
(i) Contour farming and strip cropping	1434	1448	1458
(ii) Conservation tillage / no-till	1437	1449	1459
(iii) Other Practices [Specify:]	1436	1450	1460
• • • • • • • • • • • • • • • • • • • •	1	l .	1

0	FF	ICF	119	٩F

1440		

part of this field as "Highly Erodible"? (Cropland identified as highly erodible		CODE	
is subject to highly erodible land conservation (HELC) requirements. Producers who receive farm program payments are required to have (and apply) a written soil conservation plan.)		1404	
(A "written plan" is a plan prepared in accordance with Federal, State, or district standards.)	YES = 1		
		1405	
21. Have you been notified by NRCS that this field contains a wetland?	YES = 1		

#### 22. During 2011, did any written plan of the following types cover this field---

(Be sure to include soil conservation plans required under Highly Erodible Land Conservation (conservation compliance) provisions. Producers who have been notified of highly erodible land are subject to HELC requirements and must have (and apply) a written soil conservation plan to be eligible for most farm program payments.)

(A "written plan" is a plan prepared in accordance with Federal, State, or district standards.)

	1 WRITTEN PLAN TYPE	2 Was this type of written plan used?	3 What year was this plan implemented?	For any practice that is part of this plan, was (or will there be) an incentive or cost-share payment received from:
				<ol> <li>Environmental Quality Incentives Program (EQIP)?</li> <li>Conservation Security or Conservation Stewardshio Programs (CSP)?</li> <li>Conservation Reserve Program (CRP)?</li> <li>Any other Federal, State, Local or non-government source?</li> </ol>
		YES = 1	YEAR	CODE
a.	Conservation plan specifying practices to reduce soil erosion?	1408	1409 — — — —	1461
b.	Comprehensive nutrient management plan specifying practices for applying both fertilizer and manure?	1410	1411	1462
C.	Nutrient management plan specifying practices for land application of manure only?	1412	1413	1463
d.	Pest management plan to implement Integrated Pest Management (IPM) practices to control weeds, insects, and/or plant diseases?	1414	1415	1464
e.	Irrigation water management plan specifying practices for applying or conserving irrigation water?	1416	1417	1465

						CODE
23.		s the barley in this field covered by	·			1385
		YES – [Enter code 1 and continue]	□ <b>NO</b> – [Go to item 24]			
						CODE
			1 Federal CAT (basic catastrophic insu			1386
	a.	Which coverage did you obtain?	<ul><li>2 Buy-up above Federal CAT yield and</li><li>3 Revenue insurance</li></ul>	d/or price level		1000
	a.	Willich coverage did you obtain:	4 Organic plan insurance			
			5 Other Federal Crop insurance			
		'				
		(i) [If item a = 3, ask]				PERCENT
		, .	variance way obtained for this field?			1389
		what was the level of revenue co	verage you obtained for this field?			
						YEAR
	b.	In what year did you (the operator listed				1387
		in the Federal crop insurance program	1?			
					ı	BUSHELS PER ACRE
						1388
	C.	What is the 2011 Approved APH (actu	al production history) yield for this field?	?		
				DOLLARO & OFNE		
				DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
	Ч	What was the premium paid for Feder	al cron incurance	1390		1391
	u.	for this field in 2011? ( <i>Exclude</i> any sign-		•		
		( , , , , , , , , , , , , , , , , , , ,				CODE
		D: 1 / W \ H / : 1				CODE
	e.	Did you (or will you) collect an indemr from federal crop insurance during 20		VEC		1392
		nom rederal crop insurance during 20	117	TES	) = 1	
24	١٨/-					
24.		s the barley in this field covered by 2011 (hail, wind, freeze, etc.)?	private crop insurance			CODE
		YES – [Enter code 1 and continue]	☐ <b>NO</b> – [Go to <b>Section C</b> ]			1393
	Ш	1E3 - [Eriter code i and continue]	☐ NO = [60 to Section C]			
				DOLLARS & CENTS		
				PER ACRE	OR	TOTAL DOLLARS
	a.	What was the premium paid for private		1395		1396
		for this field in 2011? (Exclude any sign-	up fee.)	•		
						YEAR
	b.	In what year did you (the operator liste	ed on this label) first purchase			1397
		private crop insurance for this field?				
						CODE
	c.	Did you (or will you) collect an indemr	nity payment for this field			1394
		from private crop insurance during 20		YES	<b>5</b> = 1	

#### NOTES

				CODE	EDIT TABLE
1.	Were commercial nutrients of 2011 barley crop?	0202	0201		
2.	[If COMMERCIAL nutrient or for	ertili.	zer applied, continue; else go to item 7.]		NUMBER
3.	_		or fertilizer applications were made to this field on smade by airplanes and custom applicators.)		0203
4.	Now I need to record information	atio	n for each application.		
]   	CHEC	K	LIST		
! √	INCLUDE	✓	EXCLUDE		
	Custom applied nutrients or fertilizers		Micronutrients		
	Nutrients or fertilizers		Unprocessed manure		
I	applied in the fall of 2010 and those applied earlier		Nutrients or fertilizers applied I		
I	if this field was fallow in 2010		to previous crops in this field	T-TYPE 2	TABLE 001
	Commercially prepared manure or compost		Lime and gypsum/landplaster  LINE 99	OFFICE USE LINES IN TABLE	0213

#### **APPLICATION CODES for COLUMN 6**

- 1 Broadcast, ground without incorporation
- 2 Broadcast, ground with incorporation
- 3 Broadcast, by aircraft 4 In seed furrow

- 5 In irrigation water
- 6 Chisel/Injected or knifed in
- 7 Banded in or over row
- 8 Foliar or directed spray

			2		3	4	5	6	7
I N E	MATERIALS USED  [Enter percentage analysis or actual pounds of plant nutrients applied per acre.]  [Show Common Nutrients or Fertilizers in Respondent Booklet.]			What quantity was applied per acre?  [Leave this column blank if actual nutrients were reported.]	[Enter material code.] 1 Pounds 12 Gallons 19 Pounds of actual	When was this applied?  1 In the fall before seeding 2 In the spring before seeding 3 At seeding	How was this applied?  [Refer to code list above.]	How many acres were treated in this application?	
	<b>N</b> Nitrogen	P2O5 Phosphate	<b>K2O</b> Potash	<b>S</b> Sulfur		nutrients	4 After seeding		ACRES
01	0205	0206	0207	0214	0208	0209	0210	0211	0212
02	0205	0206	0207	0214	0208	0209	0210	0211	0212
03	0205	0206	0207	0214	0208	0209	0210	0211	0212
04	0205	0206	0207	0214	0208	0209	0210	0211	0212
05	0205	0206	0207	0214	0208	0209	0210	0211	0212
06	0205	0206	0207	0214	0208	0209	0210	0211	0212
07	0205	0206	0207	0214	0208	0209	0210	0211	0212
80	0205	0206	0207	0214	0208	0209	0210	0211	0212

T-TYPE	TABLE	LINE
0	000	00

5.	We	re any nutrients or fertilizers applied by	custom applicators?			
		YES - [Continue]	NO - [Go to item 6]			
	a.	Are you able to report the cost of nutrient	or fertilizer materials			OFFICE USE
		and custom application separately?  YES - [Continue]	<b>NO</b> - [Go to item 6]			0215
	L					
	b.	Excluding the cost of the nutrient or fertility was spent for custom application of nutries		DOLLARS & CEI	NTC	
		field? (Include operator, landlord, and contractor and micronutrients. Exclude custom application of	costs. Include costs for sulfur	DOLLARS & CEI PER ACRE	OR	TOTAL DOLLARS
		and micronitrients. <b>Exclude</b> custom application of and purchased compost.) [If material and application them here and record the total in item 6.]	on costs can't be separated, <b>exclude</b>	0219		0220
		and record and record and telescond and engineering		<u></u> -		
6	\ <b>\</b> /h	est was the TOTAL COST of all nutrient	or fortilizar producto			
6.		nat was the TOTAL COST of all nutrient plied to this field? (Include operator, landlord		DOLLARS & CEI	NTS	
		he costs for sulfur and micronutrients. [If custom applies be separated from application costs, include the co		PER ACRE	OR	
	inclu	ude both the material and application costs.] <b>Include</b> was fallow in 2010. <b>Exclude</b> lime, gypsum, purchase	materials applied to this field	0221		0222
						CODE
7	W <sub>0</sub>	or gypoum applied to this field for the 20	011 harlay aran?		VEC 4	0218
7.	vva	s gypsum applied to this field for the 20	or i bariey crop?		169 = 1	
8.		is a soil or plant tissue test performed o 2010 or 2011 for the 2011 crop?	on this barley field			
	$\Box$	VEC [On a figure]				
	Ш	YES [Continue]	m 13]			
	Ш	TES [Continue] INO [Go to ite.	m 13]			CODE
9.	Wa	s a soil test for phosphorus performed	on this barley field			<b>CODE</b> 0225
9.	Wa in 2	s a soil test for phosphorus performed 2010 or 2011 for the 2011 crop?	on this barley field		YES = 1	0225
9.	Wa	s a soil test for phosphorus performed	on this barley field		YES = 1	0225 POUNDS PER ACRE
9.	Wa in 2	s a soil test for phosphorus performed 2010 or 2011 for the 2011 crop?	on this barley field			0225
9.	Wa in 2	as a soil test for phosphorus performed 2010 or 2011 for the 2011 crop?	on this barley field			0225 POUNDS PER ACRE
	Wain 2	is a soil test for phosphorus performed 2010 or 2011 for the 2011 crop?  [If phosphorus test done, ask]  How many pounds of phosphorus (per action is a soil test for nitrogen performed on the contraction is a soil	on this barley field  cre) were recommended (by the ph	nosphorus test)	?	0225  POUNDS PER ACRE 0226
	Wain 2	as a soil test for phosphorus performed 2010 or 2011 for the 2011 crop?  [If phosphorus test done, ask]  How many pounds of phosphorus (per acts a soil test for nitrogen performed on the 2010 or 2011 for the 2011 crop?	on this barley field  cre) were recommended (by the ph	nosphorus test)		0225  POUNDS PER ACRE 0226  CODE 0227
	Wain 2	is a soil test for phosphorus performed 2010 or 2011 for the 2011 crop?  [If phosphorus test done, ask]  How many pounds of phosphorus (per action is a soil test for nitrogen performed on the contraction is a soil	on this barley field  cre) were recommended (by the ph	nosphorus test)	?	0225  POUNDS PER ACRE 0226  CODE 0227  POUNDS PER ACRE
	Wain 2	as a soil test for phosphorus performed 2010 or 2011 for the 2011 crop?  [If phosphorus test done, ask]  How many pounds of phosphorus (per acts a soil test for nitrogen performed on the 2010 or 2011 for the 2011 crop?	on this barley field  cre) were recommended (by the phase) this barley field	nosphorus test)	?	0225  POUNDS PER ACRE 0226  CODE 0227
	Wain 2	Is a soil test for phosphorus performed 2010 or 2011 for the 2011 crop?  [If phosphorus test done, ask]  How many pounds of phosphorus (per act as a soil test for nitrogen performed on the 2010 or 2011 for the 2011 crop?	on this barley field  cre) were recommended (by the phase) this barley field	nosphorus test)	?	0225  POUNDS PER ACRE 0226  CODE 0227  POUNDS PER ACRE
10.	Wain 2 a.  Wa	is a soil test for phosphorus performed 2010 or 2011 for the 2011 crop?  [If phosphorus test done, ask]  How many pounds of phosphorus (per acts a soil test for nitrogen performed on the 2010 or 2011 for the 2011 crop?  [If nitrogen test done, ask]  How many pounds of nitrogen (per acre)  is a plant tissue test or leaf analysis for	on this barley field  cre) were recommended (by the phase) this barley field  were recommended (by the nitrog) nutrient deficiency performed	nosphorus test)	?	0225  POUNDS PER ACRE 0226  CODE 0227  POUNDS PER ACRE 0228
10.	Wain 2 a.  Wa	Is a soil test for phosphorus performed 2010 or 2011 for the 2011 crop?  [If phosphorus test done, ask]  How many pounds of phosphorus (per act as a soil test for nitrogen performed on the 2010 or 2011 for the 2011 crop?  [If nitrogen test done, ask]  How many pounds of nitrogen (per acre)	on this barley field  cre) were recommended (by the phase) this barley field  were recommended (by the nitrog) nutrient deficiency performed	nosphorus test)	?	0225  POUNDS PER ACRE 0226  CODE 0227  POUNDS PER ACRE 0228  CODE
10.	Wain 2 a.  Wa	is a soil test for phosphorus performed 2010 or 2011 for the 2011 crop?  [If phosphorus test done, ask]  How many pounds of phosphorus (per acts a soil test for nitrogen performed on the 2010 or 2011 for the 2011 crop?  [If nitrogen test done, ask]  How many pounds of nitrogen (per acre)  is a plant tissue test or leaf analysis for	on this barley field  cre) were recommended (by the phase) this barley field  were recommended (by the nitrog) nutrient deficiency performed	nosphorus test) en test)? DOLLARS & CE	? YES = 1  YES = 1	0225  POUNDS PER ACRE 0226  CODE 0227  POUNDS PER ACRE 0228  CODE 0229
10.	Wain 2 a.  Wa in 2 a.  Wa on	is a soil test for phosphorus performed 2010 or 2011 for the 2011 crop?  [If phosphorus test done, ask]  How many pounds of phosphorus (per act as a soil test for nitrogen performed on the 2010 or 2011 for the 2011 crop?  [If nitrogen test done, ask]  How many pounds of nitrogen (per acre) as a plant tissue test or leaf analysis for this field for the 2011 crop?	on this barley field  cre) were recommended (by the phase) this barley field  were recommended (by the nitrog	nosphorus test) en test)?	?	0225  POUNDS PER ACRE 0226  CODE 0227  POUNDS PER ACRE 0228  CODE  0229
10.	Wain 2 a.  Wain 2 a.  Waon	is a soil test for phosphorus performed 2010 or 2011 for the 2011 crop?  [If phosphorus test done, ask]  How many pounds of phosphorus (per acts a soil test for nitrogen performed on the 2010 or 2011 for the 2011 crop?  [If nitrogen test done, ask]  How many pounds of nitrogen (per acre)  is a plant tissue test or leaf analysis for	on this barley field  cre) were recommended (by the phase) this barley field  were recommended (by the nitrog nutrient deficiency performed	en test)?  DOLLARS & CE PER ACRE	? YES = 1  YES = 1	POUNDS PER ACRE 0226  CODE 0227  POUNDS PER ACRE 0228  CODE 0229  TOTAL DOLLARS
10.	Wain 2 a.  Wain 2 a.  Waon	is a soil test for phosphorus performed 2010 or 2011 for the 2011 crop?  [If phosphorus test done, ask]  How many pounds of phosphorus (per act as a soil test for nitrogen performed on the 2010 or 2011 for the 2011 crop?  [If nitrogen test done, ask]  How many pounds of nitrogen (per acre) as a plant tissue test or leaf analysis for this field for the 2011 crop?	on this barley field  cre) were recommended (by the phase) this barley field  were recommended (by the nitrog  nutrient deficiency performed  ant tissue tests	en test)?  DOLLARS & CE PER ACRE  0230	? YES = 1  YES = 1	POUNDS PER ACRE 0226  CODE 0227  POUNDS PER ACRE 0228  CODE 0229  TOTAL DOLLARS
10.	Wain 2 a.  Wain 2 a.  Waon	is a soil test for phosphorus performed 2010 or 2011 for the 2011 crop?  [If phosphorus test done, ask]  How many pounds of phosphorus (per act as a soil test for nitrogen performed on the 2010 or 2011 for the 2011 crop?  [If nitrogen test done, ask]  How many pounds of nitrogen (per acre) as a plant tissue test or leaf analysis for this field for the 2011 crop?	on this barley field  cre) were recommended (by the phase) this barley field  were recommended (by the nitrog  nutrient deficiency performed  ant tissue tests ractor costs.).  1 Soil/plant tissue test provided free of a by dealer, crop consultant, or extension	en test)?  DOLLARS & CE PER ACRE  0230	? YES = 1  YES = 1	POUNDS PER ACRE 0226  CODE 0227  POUNDS PER ACRE 0228  CODE 0229  TOTAL DOLLARS
10.	Wain 2 a.  Wain 2 a.  Waon	as a soil test for phosphorus performed 2010 or 2011 for the 2011 crop?  [If phosphorus test done, ask]  How many pounds of phosphorus (per act as a soil test for nitrogen performed on the 2010 or 2011 for the 2011 crop?  [If nitrogen test done, ask]  How many pounds of nitrogen (per acre) as a plant tissue test or leaf analysis for this field for the 2011 crop?  w much was spent for these soil and plathis field? (Include operator, landlord, and contains)	on this barley field  cre) were recommended (by the phase) this barley field  were recommended (by the nitrog  nutrient deficiency performed  ant tissue tests  ractor costs.)	en test)?  DOLLARS & CE PER ACRE  0230	? YES = 1  YES = 1	POUNDS PER ACRE 0226  CODE 0227  POUNDS PER ACRE 0228  CODE 0229  TOTAL DOLLARS 0231

13. [ENUMERATOR ACTION: Refer to the Fertilizer Table, column 2. If nitrogen (N) was applied, complete items 14 and 15. If NO nitrogen applied, go to item 16.]

14.	Wa	s the amount of nitrogen you decided to apply to this field based on	CODE
			0233
	a.	Results of a soil or plant tissue test? YES = 1	
	b.	Crop consultant recommendation?YES = 1	0234
	υ.	Crop consultant recommendation:	0235
	c.	Fertilizer dealer recommendation? YES = 1	0233
			0236
	d.	Extension Service recommendation? YES = 1	
			0237
	e.	Cost of nitrogen and/or expected commodity price? YES = 1	
	f.	Contractor recommendation?	0238
			0239
	g.	Routine practice (operator's own determination based on past experience, yield goal, etc.)?YES = 1	0239
15.	Did	you purchase any commercial nitrogen fertilizer applied to this field	CODE
	unc	ler contract or otherwise pre-purchase the fertilizer at a pre-determined	0223
	•	ce prior to planting?YES = 1	
	a.	[If YES, ask]	2004
		What month prior to planting for the 2011 crop did you contract for the fertilizer used on this field? [Enter code "1" for January, "2" for February, etc.]	0224
		Termizer used on this field: [Enter code 1 for Sandary, 2 for February, etc.]	
			CODE
			0242
16.	ls li	me ever applied to this field? YES = 1	0242
	[II I	no lime applied, go to item 17; else continue.]	<b>YEARS</b> 0243
	a.	On average, how many years are there between applications of <b>lime</b> to this field?	0243
	ű.	ch average, non many years are allere between applications of time to the float the restaurant	
			TONS PER ACRE
	h	How many tons of <b>lime</b> were applied per acre the last time it was applied to this field?	0244
	υ.	Trow many tons of time were applied per dore the last time it was applied to this held:	
			CODE
	•	Was lime applied to this field in 2010 or 2011 for the 2011 crop? YES = 1	0240
	C.	Was lime applied to this field in 2010 or 2011 for the 2011 crop?	
	d.	[If field is rented (Section B, item 2 = 2, 3, 4, or 5), ask]	PERCENT
		e choice in ig and last aims it mas applied, in at person or and total cost or aims	0245
		and its application was paid by the landlord(s)?	

17.	ma	ns non-commercial manure nterial (excluding compost) appared manure.)				ly	0246	DDE
		YES - [Enter code 1 and con	tinue] 🗌 NO	- [Go to item 19]			0240	
		•	•				AC 0247	RES
	a.	How many acres in this field	was manure applied to?	?			0247	•
		•						
		140	1 TONS	CODE	UNITS PER ACRE	OR		UNITS
	b.	What was the amount of ma applied to this field?		. 0248	AND 0249		0250	
		• • • • • • • • • • • • • • • • • • • •						
								LES
	c.	What is the distance betwee	en the manure storage/pi	oduction location an	d this field?		0251	
		1871 a al 25 Cal		1 TONS	CODE			UNITS
	d.	What was the capacity of the (or other vehicle) used to ha		2 GALLONS 3 BUSHELS	0252	AND	0253	
		(or ourser vermers) accases to the		o boorileed				•
	e.	Of the total manure applied	to this field for the 2011					
	0.	crop, what was the percent					PER	CENT
							0254	
		(i) in the fall before planting	]?			. +		
		(ii) in the spring before plar	iting?			+	0255	
		(ii) iii alio opiilig pololo pial	9			-	0256	
		(iii) after planting?				+		
							10	0%
			<ul><li>1 Lagoon liquid?</li><li>2 Slurry liquid?</li></ul>				0257	DDE
	f.	Was the manure	• •				0237	
			Broadcast or sprayed	without incorporation?	7			
			2 Broadcast or sprayed	•			cc	DDE
	а	Was the manure	3 Injected/knifed in?				0258	
	g.	was the manare	4 Sprayed using irrigation	n systems?				
					7			
			1 Beef cattle?				CC	DDE
	h.	Was the major source	<ul><li>2 Dairy cattle?</li><li>3 Hogs?</li></ul>				0259	
		of the manure from	4 Sheep?					
			<ul><li>5 Poultry?</li><li>6 Equine?</li></ul>					
			7 Biosolids ( <i>municipal sl</i>	ludge)?				
			8 Food waste?	_				
			9 Other? [Specify:	]				

	i.	Was the manure	<ol> <li>Produced on this operation?</li> <li>Purchased?</li> <li>Obtained at no cost off this operation?</li> <li>Obtained with compensation? (Operator received payment for accepting the manure.)</li> </ol>		<b>CODE</b> 0260
		(i) [If item 17i = 2, ask]		DOLLARS & CENTS PER ACRE O	R TOTAL DOLLARS
			t of the purchased manure applied y payment made for transportation costs.)		0285
		CODE			
		(ii) Did you hire someone	to custom apply the manure?	YES =	0286 <b>1</b>
		(1) [If YES, ask]		DOLLARS & CENTS	
			cost paid to have manure custom applied	PER ACRE 0	R TOTAL DOLLARS
			t report custom application cost if it was included with cost.]		0200
					CODE
	j.		nis field, was any tested for nutrient content	VEC _	0261
		phor to application:			'
	k.		commercial nitrogen fertilizer on this field blication?	YES =	0262
		(i) [If YES, ask]			PERCENT
			u reduce the commercial nitrogen fertilizer field?		0263
					CODE
	I.		arvest date for this field due to the	YES =	0280
		.,			CODE
18.	We	ere the manure APPLICATI	ON RATES to this field influenced by Federa	al,	0264
	Sta	ate, or local restrictions?		YES =	1
	a.	ons			
		<b>CODE</b> 0265			
		(i) Nitrogen requirement of	f the crop?	YES =	
		(ii) Dhaarbana is is is	and of the course O		0266
		(ii) Phosphorus requireme	nt of the crop?	YES =	1

					CODE
19.			ompost applied to this field for the		0267
	Ш	YES	- [Enter code 1 and continue]	□ NO - [Go to Section D]	
					ACRES
		_	la companya da da California		0268
	a.	10	now many acres in this field was t	he compost applied?	•
				CODE UNITS PER ACRE OR	TOTAL UNITS
	b.	Wh	at was the amount of compost	1 Tons 0269 0270	0271
			olied to this field?	2 Cubic Yards AND	•
					[Enter up to 3
					source codes]
				1 Beef cattle?	FIRST
				2 Dairy cattle? 3 Hogs?	0281
				4 Sheep?	SECOND
	c.		e the major sources	5 Poultry?	0282
		of t	he compost from	6 Equine? 7 Biosolids ( <i>municipal sludge</i> )?	0202
				8 Food waste?	THIRD
				9 Crop? [Specify:]	0283
				10 Other? [Specify:]	
				A. Desdused on this are entire?	
				1 Produced on this operation? 2 Purchased?	
	d.	Wa	s the compost	3 Obtained at no cost off this operation?	CODE
				4 Obtained with compensation? (Operator received payment for accepting the compost.)	0272
				reserved payment for decopuling the compession	
		(i)	[If item 19d = 2, ask]	DOLLARS & CENTS	
			What was the total cost of the put	ichased compost applied	TOTAL DOLLARS
			to this field? ( <i>Include</i> operator, landle any payment made for transportation cos	ord, and contractor costs and 0273 ts.)	0274
			, pay	·,	
					CODE
		(ii)	Did you hire someone to custom	apply the compost? YES = 1	0275
		()	•		
			(1) [If YES, ask]	DOLLARS & CENTS to have compact custom PER ACRE OR	TOTAL DOLLARS
			What was the total cost paid applied to this field? (Include)	operator, landlord, and contractor costs.)	0277
				st if it was included with the compost cost.]	
		(iii)	[If item 19d = 1, ask]		MILES
		(111)		compost storage/production location and this field?	0299
			vinatio the distance between the	compost storage/production location and this lielu!	·—

Now I have some questions about all the biocontrols or pesticides used on this field for the 2011 barley crop, including both custom applications and applications made by this operation.

	Was and ballette to a father for all the conditions and a literature.		CODE	EDIT TABLE	
1.	Were any herbicides, insecticides, fungicides or other biocontrols		0302	0301	
	or pesticides used on this barley field for the 2011 crop?		0002	0001	
	Y	YES = 1			

[Probe for applications made in the fall of 2010 (and those made earlier If this field was fallow).]

If no biocontrols or pesticides applied, go to Section E.

Include defoliants, fungicides, herbicides, insecticides, and other pesticides.

Include biological and botanical pesticides.

Exclude nutrients or fertilizers reported earlier and seed treatments.

T - TYPE 3 001

LINE 0FFICE USE LINE IN TABLE

		2	3	4	5	6 O	R 7	8
CHEMICAL PRODUCT NAME	L I N E	What products were applied to this field?  [Show product codes from Respondent Booklet.]	Was this product bought in liquid or dry form?	Was this part of a tank mix?  [If tank mix, enter line number of first product in mix.]	When was this applied?  1 BEFORE planting  3 AT planting  4 AFTER planting	How much was applied per acre per application?	What was the total amount applied per application in this field?	[Enter unit code.] 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Liquid Ounces 28 Dry Ounces 30 Grams
	01	0305		0306	0307	0308	0309	0310
	02	0305		0306	0307	0308	0309	0310
	03	0305		0306	0307	0308	0309	0310
	04	0305		0306	0307	0308	0309	0310
	05	0305		0306	0307	0308	0309	0310
	06	0305		0306	0307	0308	0309	0310
	07	0305		0306	0307	0308	0309	0310
	08	0305		0306	0307	0308	0309	0310
	09	0305		0306	0307	0308	0309	0310
	10	0305		0306	0307	0308	0309	0310
	11	0305		0306	0307	0308	0309	0310
	12	0305		0306	0307	0308	0309	0310
	13	0305		0306	0307	0308	0309	0310
	14	0305		0306	0307	0308	0309	0310

2. [For biocontrols or pesticides not listed in Respondent Booklet, specify---]

LINE	Pesticide Type (Herbicide, Insecticide Fungicide, etc.)	EPA No. or Trade name and Formulation	Form Purchased (Liquid or Dry)	Where Purchased [Ask ONLY if EPA No. cannot be reported.]

#### **APPLICATIONS CODES for column 9**

- 1 Broadcast, ground without incorporation
- 2 Broadcast, ground with incorporation
- 3 Broadcast, by aircraft
- 4 In seed furrow
- 5 In irrigation water

- 6 Chisel/Injected or knifed in
- 7 Banded in or over row
- 8 Foliar or directed spray
- 9 Spot treatments

#### [ENUMERATOR NOTE:

Use these columns only if

TOTAL COST

(item 4 on next page) cannot be provided.]

	9	10	11	12
L I N E	How was this product applied? How many acres in this field were treated with this product?  [Enter code from above.] ACRES		How many times was it applied? NUMBER	Were these applications made by  1 Operator, partner or family member? 2 Custom applicator? 3 Employee/Other?
01	0311	0312	0313	0316
02	0311	0312	0313	0316
03	0311	0312	0313	0316
04	0311	0312	0313	0316
05	0311	0312	0313	0316
06	0311	0312	0313	0316
07	0311	0312	0313	0316
08	0311	0312	0313	0316
09	0311	0312	0313	0316
10	0311	0312	0313	0316
11	0311	0312	0313	0316
12	0311	0312	0313	0316
13	0311	0312	0313	0316
14	0311	0312	0313	0316

OPTIONAL ITEM 4					
What was the cost per unit of the product?					
	UNIT CODE				
DOLLARS & CENTS PER UNIT	1 Pounds 15 Liquid Ounces 12 Gallons 28 Dry Ounces 13 Quarts 30 Grams 14 Pints				
0317	0318				
0317	0318				
0317	0318				
0317	0318				
0317	0318				
0317	0318				
0317	0318				
0317	0318				
0317	0318				
0317	0318				
0317	0318				
0317	0318				
0317	0318				
0317	0318				
	·				

3.	3. Were any chemicals, biocontrols, or pesticides applied by custom applicators?					
		YES – [Continue]	☐ <b>NO</b> – [Go to item 4]			
						OFFICE USE
	a.	Are you able to report the cost of and custom application separate	of chemical, biocontrol, and pesticide productely?	s		0324
		☐ YES – [Continue]	□ <b>NO</b> – [Go to item 4]			
	h	Excluding the cost of the chemical, biocontrol, and pesticide products,		DOLLARS & CENTS PER ACRE OR		TOTAL DOLLARS
	b.	how much was spent for custom (Include operator, landlord, and contract	0331		0332	
4.		What was the TOTAL COST of all chemical, biocontrol, or pesticide  DOLLARS & CEN PER ACRE				TOTAL DOLLARS
	products applied to this field? (Include operator, landlord, and contractor costs, defoliants, herbicides, insecticides, fungicides, surfactants, wetting agents, growth regulators, and materials applied before planting and during 2010 fallow period. Exclude seed treatments.).					0335
NC	OTE '	1: If respondent cannot report TOTA	L COST, itemize cost for each product in optiona	l columns in Biocontro	ol or	Pesticide Table.
NC	OTE 2	2: If custom applied and the costs for Otherwise, report both the materia	or materials can be separated from application cos al and application costs in item 4.	sts, include the cost fo	or ma	aterials only.

### **NOTES**

## PEST MANAGEMENT PRACTICES---SELECTED FIELD

T-TYPE	TABLE	LINE
0	000	00

Ε

	w I have some questions about your pest ma ed on this field for the 2011 barley crop. By p	T-TYPE	TABLE	LINE	
DIS	EASES.		0	000	00
1.	[ENUMERATOR ACTION: Were PESTICIDE	applications reported in Section D?			
	YES – [Continue]	NO – [Go to item 8]			
				COL	DE
2.	Was weather data used to assist in determin	ning either the need or when	(	0800	
			YES = 1		
3.	Were any biological pesticides such as Bt (		Г	0801	
	regulators, neem or other natural/biological to manage pests in this field?		J60 I		
			· L		
4.	Were pesticides with different mechanisms			0802	
	for the primary purpose of keeping pests fro	om becoming resistant to pesticides?	<b>YES</b> = 1		
5.	[ENUMERATOR ACTION: Were HERBICIDE applications report	(pesticide product codes 3000-4999) ted in Section D, item 1, column 2?			
		•			
	YES – [Continue]	NO – [Go to item 8]			
_	Many Lord College and Parket distribution College		Ľ	0803	
6.	Were herbicides applied to this barley field BEFORE weeds emerged?			J8U3	
7	Were herbicides applied to this barley field		(	0805	
•			YES = 1		
			_		
		1 By deliberately going to the field specifically for scouting	1		
8.	In 2011, how was this field	activities [Enter code 1 and go to item 9.]		COL	DE
	primarily scouted for insects, weeds, diseases, and/or beneficial	2 By conducting general observations while performing routine tasks [Enter code 2 and go to item 11.]	(	0808	
	organisms?	3 This field was not scouted.	<u> </u>		
		[Enter code 3 and go to item 16.]			
			-		
9.	Was an established scouting process (syste			0809	
	or were insect traps used in this field?		YES = 1		
10.	Was scouting for pests done in this field du	e to	_		
	a post advisory warning?			0810	
	a. a pest advisory warning?		YES = 1	D811	
	b. a pest development model?		YES = 1	JU 1 1	

1	2 [If YES, ask] What was the infestation level for [column 1]?	3 [If column 1 is YES, ask] Who did the majority of the scouting for [column 1]?				
11. Was this barley field scouted for	Worse than normal     Normal     Less than normal     CODE	Operator, partner or family member     An employee     Farm supply or chemical dealer     Independent crop consultant or commercial scout				
	YES = 1					
a. weeds?	0812	0813	0814			
b. insects or mites?	0815	0816	0817			
c. diseases?	0818	0819	0820			
[If scouted by crop consultant or commercial scout, ask item 12; DOLLARS & CENTS else go to item 13.]						

[If scouted by crop consultant or commercial scout, ask item 12; else go to item 13.]  DOLLARS & CENTS PER ACRE OR				
12. How much was charged for the scouting services for this field?  (Include operator, landlord, and contractor costs.)		0822		
	<u>_</u>	OFFICE USE		
a. [If scouting performed at no cost, explain:	]	0333		
		CODE		
13. Were written or electronic records kept for this field to track the activity or numbers of weeds, insects or diseases?	. YES = 1	0823		
14. Were scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests in this field?	. YES = 1	0824		
15. Did you use field mapping of previous weed problems to assist you in making weed management decisions?	YES = 1	0825		

16. Did you do any of the following other types of pest management for the specific purpose of managing or reducing the spread of pests in this field? [Enter code "1" for all that apply.]

	····u	naging of readoning the spread of pests in this field. [Enter sode in for all	triat apply.]		CODE
	a.	Use the services of a diagnostic laboratory for pest identification or soil plant tissue pest analysis for this field?	YES	= 1	0841
					0842
	b.	Plow down crop residue (using conventional tillage)?	YES	= 1	0040
	C.	Remove / burn down crop residue?	YES	= 1	0843
					0844
	d.	Rotate crops in this field during the past three years?	YES	= 1	0845
	e.	Maintain ground covers, mulches, or other physical barriers?	YES	= 1	0643
					0846
	t.	Choose crop variety because of specific resistance to a certain pest?	YES	= 1	0847
	g.	Use no-till or minimum till?	YES	= 1	0047
		Discoularity of the first transfer of the state of the st			0848
	h.	Plan planting locations to avoid cross infestation of pests?	YES	= 1	0849
	i.	Adjust planting or harvesting dates?	YES	= 1	00.10
	j.	Chop, spray, mow, plow, or burn field edges, lanes, ditches,			0850
		roadways, or fence lines?	YES	= 1	
	k.	Clean equipment and field implements after completing field work	V=0		0851
		to reduce the spread of pests?	YES	= 1	0852
	l.	Adjust row spacing, plant density or row directions?	YES	= 1	
	m.	Have the seed treated for insect or disease control			0854
		after you purchased the seed for this field?	YES	= 1	0855
	n.	Maintain a beneficial insect or vertebrate habitat?	YES	= 1	0633
	0.	Maintain buffer strips or border rows to isolate organic barley			0856
		from non-organic crops or land, or did you take a buffer harvest?	YES	= 1	
	p.	Use a flamer to kill weeds?	YES	= 1	0857
					0865
	q.	Plant earlier or later to avoid weeds?	YES	= 1	
					CODE
17.		re any beneficial organisms (insects, nematodes, fungi) applied			0853
	or I	released in this field to manage pests?	YES	5 = 1	
18.	We bio	re floral lures, attractants, repellants, pheromone traps or other logical pest controls used on this field?	YES	i = 1	0858
		[If item 17 or item 18 is YES, ask]			
	a.		OLLARS & CENTS		
		for all biological pest controls for this field? (Include	PER ACRE	OR	TOTAL DOLLARS
		operator, landlord, and contractor costs. <i>Include</i> cost for beneficial organisms (insects, nematodes, and fungi). <i>Exclude</i> biological pesticides.)	859 ·		0860

		CODE
		0863
19.	Was a trap crop (excluding fallow) grown to help manage insects in this field? YES =	1
		0004
20	Was this field left fallow in 2010 to help manage insects on this field? YES =	0864
20.	was this field left fallow in 2010 to fielp manage insects on this field? 125 =	1
21	Were water management practices such as irrigation scheduling controlled	
۷۱.	Were water management practices such as irrigation scheduling, controlled drainage, or treatment of retention water used on this field to manage pests	0861
	or toxin-producing fungi and bacteria? YES =	1
22.	Was protection of beneficial organisms a factor in your pest control decisions	
	for this field?	CODE
	TYPE I Forten and A and antiferral Type I Oc to item OC	0862
	☐ YES – [Enter code 1 and continue] ☐ NO – [Go to item 23]	
		0000
	a. Did you change timing of, reduce application rate of, or eliminate a pesticide application?. YES =	0866
	a. Did you change timing of, reduce application rate of, or climinate a positione application:. 123 =	0867
	b. Did you change to an alternative pesticide, biocontrol, or non-pesticide practice? YES =	
		0868
23.	Did you cultivate this field for weed control? YES =	1
	a. [If yes, ask]	NUMBER
		0869
	How many times?	
5-	T MANAGEMENT INFORMATION	
PE	ST MANAGEMENT INFORMATION	
24.	[Show Pest Management Information Sources Code List from Respondent Booklet.]	
	Which outside sources of information on pest management practices and products	
	were used for the 2011 barley crop?	
	[Starting with the most influential in determining the pest management practices used	
	on this operation, enter codes for up to three sources.]	
	PEST MANAGEMENT INFORMATION SOURCES CODE LIST	[Enter up to 2
	1 County, Cooperative, or University Extension Advisor,	[Enter up to 3 source codes.]
	Publications or Demonstrations	
	2 Farm Supply or Chemical Dealer	FIRST
	3 Commercial Scouting Service	0826
	4 Independent Crop Consultant	
	or Pest Control Advisor/Custom Applicator	SECOND
	5 Other Growers or Producers	0827
	6 Producer Associations, Newsletters or Trade Magazines	
	7 Electronic Information Services (DTN, Internet, World Wide Web, etc.)	
	8 Employee Pest Advisor	THIRD
	9 Other – [Specify: ]	0828
	10 None – Operator used no <b>outside</b> information source	

Completion Code for Pest Management Data				
1 Incomplete/Refusal	0340			

# FIELD OPERATIONS---SELECTED FIELD

1.	Now I need to list all tractors used to
	produce barley on the selected field.

CHECK LIST						
Include	Exclude					
Tractors owned, rented, leased or borrowed	Tractors provided by custom operators					

1	2	3	4	5	6
	What tractors were used on this field?  (Examples: John Deere & Company, AGCO (Challenger, Massey-Ferguson, Caterpillar), Ford New-Holland (Case), Kubota)	What is the model year? (Example: 2004)	Is this vehicle a?  2 2-wheel drive tractor 3 2-wheel drive tractor with front wheel assist 4 4-wheel drive tractor 5 crawler or other tracked-tractor 6 other tractor	What is its PTO Horsepower?	Is it?  1 diesel 2 gasoline 3 LP gas 9 other
		YEAR	CODE	PTO HORSEPOWER	CODE
1		0120	0121	0122	0123
2		0124	0125	0126	0127
3		0128	0129	0130	0131
4		0132	0133	0134	0135
5		0136	0137	0138	0139
6		0140	0141	0142	0143
7		0144	0145	0146	0147
8		0148	0149	0150	0151
9		0152	0153	0154	0155
10		0156	0157	0158	0159

<ol><li>Was a self-pro</li></ol>	pelled combine and/	or swather used to	harvest the b	parley field?
----------------------------------	---------------------	--------------------	---------------	---------------

Ш	YES − [Continue]	
		YEAR
a.	What is the model year of the self-propelled harvester(s) used to harvest barley from this field? (Report the average year if more than one was used.)	0830
		YEAR
b.	What is the model year of the self-propelled swather(s) used in preparing to harvest barley from this field? (Report the average year if more than one was used.)	0831
		CODE
C.	Did you use a defoliant in place of a swather in preparing to harvest the barley from this field?	0832

# 3. Including custom operations, I need to list field work performed by machines on this field for the 2011 barley crop. Please...

- ▶ begin with the first field operation after harvest of previous crop, including operations for a cover crop established since the previous crop harvested [if fallow during 2010, list operations starting with fall 2009];
- ► list the operations in order through harvest and hauling of this crop to storage or first point of sale; and
- ▶ maintain the order of tandem hook-ups.

#### **CODES FOR COLUMN 5**

- 1 You (the Operator)
- 2 Partner
- 3 Unpaid Worker
- 4 Paid Part-time or Seasonal Worker
- 5 Paid Full-time Worker
- 6 Custom Applicator

CHECK LIST							
ļ							
Include all field work using machines for							
Land Forming/Levee Building							
☐ Tillage							
Preparing for Irrigation							
Planting							
Fertilizer & Pesticide applications							
Harvesting & Hauling to storage or first point of sale							
I Exclude							
Lime & Gypsum/landplaster applications							

2	3	4	5		[ IF CUSTOM	(column 5 = code 6	6), skip columns 6-10	0]
				6	7	8	9	10
SEQUENCE	What operation or equipment was used?	[Record machine code from Respondent Booklet.]	Who was the machine operator?  [Enter code from above.]	What was the size or swath of the [machine] used?	[Record size unit code.]  1 Feet 2 Row 3 Moldboard (bottoms) Hauling 4 Pounds 5 Bushels 6 Tons	What was the power source?  [Record tractor line number from item 1.]  OR  66 Animal Drawn 77 Pick up 99 Self-Propelled 1/	How many acres were covered?  [Exclude land forming and hauling operations]	How many TOTAL HOURS were spent on land forming and hauling?  [Example: backhoes, disk border maker, ditcher, rear mounted blade, trucks, wagons forklifts, etc.]
No.		CODE	CODE		CODE		ACRES	HOURS
0351		0352	0353	0354	0355	0356	0357	0359
0361		0362	0363	0364	0365	0366	0367	0369
0371		0372	0373	0374	0375	0376	0377	0379
0381		0382	0383	0384	0385	0386	0387	0389
0391		0392	0393	0394	0395	0396	0397	0399
0401		0402	0403	0404	0405	0406	0407	0409
0411		0412	0413	0414	0415	0416	0417	0419
0421		0422	0423	0424	0425	0426	0427	0429
0431		0432	0433	0434	0435	0436	0437	0439
0441		0442	0443	0444	0445	0446	0447	0449
0451		0452	0453	0454	0455	0456	0457	0459
0461		0462	0463	0464	0465	0466	0467	0469
0471		0472	0473	0474	0475	0476	0477	0479
0481		0482	0483	0484	0485	0486	0487	0489
0491		0492	0493	0494	0495	0496	0497	0499
0501		0502	0503	0504	0505	0506	0507	0509
0511		0512	0513	0514	0515	0516	0517	0519
0521		0522	0523	0524	0525	0526	0527	0529

/ If trucks other than pick-ups are used as the power source, use truck codes in Respondent Booklet.

**OFFICE USE** 

0032		

4. Now I need some additional information about your labor.

Please report the paid and unpaid labor that worked on this field to produce the 2011 barley crop.

(Exclude labor that was reported for field work performed by machines.)

	How many hou	1 How many hours did (type of worker) spend on this field				
	a.	a. b.				
	scouting for weeds, insects and diseases?	irrigating?	performing other work by hand?			
TYPE OF WORKERS	HOURS	HOURS	HOURS			
You (the operator)	1101	1102	1103			
Partner(s)	1104	1105	1106			
Unpaid workers	1107	1108	1109			
Paid part-time or seasonal workers (Exclude custom and contract labor)	1110	1111	1112			
Paid full-time workers (Exclude custom and contract labor)	1113	1114	1115			

		DOLLARS & CENTS PER HOUR
5.	What was the average hourly wage rate paid to part-time or seasonal hired workers?  (Exclude custom and contract workers, payroll taxes and benefits.)	1119
		DOLLARS & CENTS PER HOUR
6.	What was the average hourly wage rate paid to full-time hired workers?  (Exclude custom and contract workers, payroll taxes and benefits.)	1118
		CODE
7.	Was any contract labor used on this field? YES = 1	1116
	a. [If YES, ask]	DOLLARS & CENTS PER ACRE
	What was the average cost per acre for this contract labor? (Include operator, landlord, and contractor costs.)	1117
		PERCENT
8.	What percent of the total number of unpaid hours worked on this field was performed by	
	workers under 16 years of age? (Estimates of labor costs for unpaid workers are based on off-farm wage rates, which are different for workers under 16 relative to those 16 and older.)	1120

9. Now I need some information on how much was spent (or will be spent) for custom services used on this field for the 2011 barley crop.

		CUSTOM SERVICE  f the following services were performed the 2011 barley crop on this field?		Including operator, landlord and contractor cost how much was spe for [column 1] on this field for the 20 barley crop?	ts, ent
✓	← [Check box for each service	re performed; refer to item 3 if necessary.]		DOLLARS & CENTS PER ACRE	8
	a. Custom land preparation, s	haping and/or leveling		1121	
	(Cost per hour X Total hours	= Total dollars ÷ Total acres in the field = Dollars	& cents per acre)		
	b. Custom cultivating			1122	
	c. Custom planting and/or res	eeding		1123	
_				1124	
Ш				1126	
_	e. Custom hauling to storage	÷ =	<b>-</b>	1120	
Ш	,	nits hauled from field ÷ Acres harvested in field = Dolla	. ,	1127	
_	· x	uling from field to storage or point of first sale		1127	
Ш		inits hauled from field ÷ Acres harvested in field = Dolla			
	g. Custom raking, baling, and	I hauling the straw from this field ÷ =		1128	
	(Dollars & cents per unit x Total un	nits hauled from field ÷ Acres harvested in field = Dollars	& cents per acre)		
10.		consultant services to make recommendate rol, irrigation, or precision farming) for this fie  NO – [Go to item 12]			
	Which of the following services	did you obtain?		CODE	
	a. Nutrient recommendations	/management service?	Y	1129 YES = 1	
		-		1130	
	b. Soil or tissue sample collection	ction?	Y		
	c. Pest control recommendat	ions/management service?	Y	1131 YES = 1	
				1132	
	d. Pest scouting?		Y	YES = 1	
	e. Irrigation management ser	vice (i.e. irrigation scheduling)?	Y		
	f Viold man or romato consi	ag man dayalanmant/interpretation?		1134	
	f. Yield map or remote sensi	ng map development/interpretation?	Y	1135	
	g. Other custom or technical	service? [Specify:	] Y		
11.		es, what was the cost for all of these lord, and contractor costs. Exclude cost of	DOLLARS & CEN PER ACRE	NTS OR TOTAL DOLLA	ARS
	soil/tissue tests or scouting cost report	ded earlier. Do not report costs for any of these ed as part of the costs of materials and/or application.)	1136 	1137	

					CODE
12.			nitor on the equipment used to harvest		1138
	this	barley field?		YES = 1	
	[ <i>If</i> \	'ES, continue; else go to item 13]			
	a.	Was there (or will there be) a yield	map produced from this harvest		1139
		using information from the yield mo	nitor?	YES = 1	
	b.	Did you use the yield monitor inforr	nation to		
	٠.	Dia you doe allo ylola illollikoi illioli			1140
		(i) monitor crop moisture content	to determine need for crop drying?	YES = 1	
					1141
		(ii) add/improve tile drainage?		YES = 1	
		(····)			1142
			nt / irrigation water application?	YES = 1	
		(iv) conduct in-field experiments (e	.g., compare fertilizer applications, les, etc.)?	VES _ 1	1143
		seed varieties, herbicides, pesticio	65, 61 <i>0.)</i> :	123 - 1	1144
		(v) negotiate new crop leases?		YES = 1	
		(vi) document yields for crop insura	ance, real estate tax, or farm		1145
				YES = 1	
		(vii) accurately divide crop production			1146
		landlord crop shares?		YES = 1	
		(viii) other uses [specific	1	VEC 1	1147
		(viii) other uses [specify.		169 = 1	
13.	Dui	ing 2010 or 2011, was a GPS ( <i>Gl</i> d	bal Positioning System) device used to produce		1148
	a m	ap of the soil properties (such as	nitrate levels, PH, soil type, etc.) of this field?	YES = 1	
	a.	[If YES, ask]	1 soil tests from this field?		
		Was the information	2 a machine that measured electrical conductivity of the soil in this field (e.g. Veris machine)?		1149
		collected above based on	3 other? [Specify:]		
14.	Did	you have an airplane or satellite	provide an image or photograph		1151
	of t	his field either at the start or duri	ng the 2011 growing season?	YES = 1	
15	Wa	s a variable rate applicator used o	on this field for		1152
		• •		VEO 4	1102
	a.			165 = 1	
		(i) [If YES, ask]			
		Did you use a variable rate app		VEO 4	1153
		(1) nitrogen applications?		YES = 1	1154
		(2) phoophorus applications?		YES = 1	1134
		(2) phosphorus applications?.		123 - 1	1155
		(3) notash applications?		YES = 1	
		(o) potasti applications:			1156
		(4) lime applications?		YES = 1	
		( )			1157
		(5) manure applications?		YES = 1	
		(o) manare applications in i			
		(b) manare applications in it.			1158
	b.			YES = 1	1158
		seeding?			1158
	b. c.	seeding?			
16.	с. <b>Wa</b>	seeding?  pesticide applications?  s a guidance or parallel swathing		YES = 1	1159

#### **NOTES**

G IRRIGATION G

		ACRES	
1.	How many acres in this field were irrigated for the 2011 barley crop?	1160	
	[If none, go to Section H]		

2. Now, I have some questions about irrigation systems and water used on this field for the 2011 barley crop.

	$\downarrow$	UNIT	SYSTEM 1	SYSTEM 2
a.	What type(s) of irrigation system(s) was (or were) used to irrigate this field? [Show System Type Codes in the Respondent Booklet. Enter System Type Code for up to two systems covering the most field acres.]	SYSTEM TYPE CODE	1161	1175
		INCHES PER ACRE	1162	1176
b.	What was the total quantity of water applied to this field during the entire growing season? ( <i>Include ALL water used from both on-farm and off-farm sources.</i> )	OR TOTAL . ACRE-FEET	1163	1177
	[If operator cannot provide item 2b, ask (i) & (ii), else go to 2c]			
	(i) What is the <b>total</b> number of <b>hours</b> this system was used to apply water to this field during the barley growing season?	TOTAL HOURS	1164	1178
	(ii) How many gallons per minute were applied?	GALLONS PER MINUTE	1165	1179
C.	What percent of the water used to irrigate this field through this system came from surface water sources?	PERCENT .	1166	1180
d.	What was the number of times this field was irrigated during the barley growing season using this system? ( <i>Include</i> any pre-plant irrigation	NUMBER OF IRRIGATIONS	1167	1181
e.	TURBINE?  2 SUBMERSIBLE?  3 CENTRIFUGAL?  4 BOOSTER?  5 SIPHON?  [If more than one pump in the system, enter type for pump closest to water source.]  9 NO PUMP?  [If code 99, go to item j.]	CODE	1168	1182
f.	What was the average pumping rate?	GALLONS PER MINUTE	1169	1183
g.	[If item 2a = code 1-9 (PRESSURE SYSTEM), ask] What was the system operating pressure?	POUNDS PER . SQUARE INCH	1170	1184
h.	What was the primary motor type used to pump the water?  1 DIESEL 2 GASOLINE 3 LP GAS 4 NATURAL GAS 5 ELECTRICITY 6 SOLAR POWER	CODE	1171	1185
i.	What was the average motor size?	. HORSEPOWER	1172	1186
j.	[If NO PUMP was used (item 2e = 99), ask] What was the average flow rate?	GALLONS PER MINUTE	1173	1187
k.	How many other acres on this operation were irrigated using this field's irrigation system during the 2011 growing season? ( <i>Exclude this field.</i> )	ACRES	1174	1188

		DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
3.	What was the cost of the fuel or electricity used to irrigate this field?	1189		1190
	(Include operator, landlord, and contractor costs.)	•		

			CODE
4.		s any water purchased to irrigate this field? (Include landlord's share and purchases from all sources.)	1191
		YES – [Enter code 1 and continue.]	
			PERCENT
			1192
	a.	What percent of the water used on this field was purchased?	
		DOLLARS & CENTS	
	b.	what was the total cost for the water purchased for this field	TOTAL DOLLARS
		during the 2011 growing season? ( <i>Include</i> operator, landlord, and	1194
		contractor costs and ditch maintenance costs for this field.)	
			TOTAL DOLLARS
5.	[ <i>If</i> §	SIPHON TUBES were used (item 2a = 10 or 11), ask]	1201
	-	nat would be the total cost to replace all the siphon tubes used on this field?	
6.	[If F	POLY PIPE system was used (item 2a = 14) ask]	TOTAL DOLLARS
	Wh	nat was the total amount spent for poly pipe used on this field during the	1202
		11 growing season? (Include operator, landlord, and contractor costs.)	
7.	[ <i>If</i> (	GATED PIPE system was used (item 2a = 15 or 16), ask]	INCHES
			1203
	a.	What was the average diameter of gated pipe used to irrigate this field?	
			FEET
			1204
	b.	What was the total length of gated pipe used?	
			CODE
8.	We	ere wells used to supply irrigation water for this field?	1205
		YES – [Enter code 1 and continue]	
			NUMBER
			1206
	a.	How many wells were used to irrigate this field?	1200
		, and the second	
			INCHES
	b.	What was the average diameter of the outer well casing?	1207
	٥.	What was the average diameter of the outer well eaching	
	C.	What was the average pumping depth of these wells during the irrigation season?	FEET
		[Pumping depth is the depth to water at the start of the irrigation season, plus an average decline in the	1208
		water level caused by pumping during the irrigation season.]	
			CODE
	_		1209
	d.	Did the well(s) have a water meter or other flow measurement device? YES =	1
	e.	Were other fields irrigated using water pumped from wells that supplied	CODE
		water to the selected field?	1210
		☐ YES – [Enter code 1 and continue] ☐ NO – [Go to item 9]	
			ACRES
	f.	Excluding this field, how many other acres on this operation were irrigated	1211
	••	using the same wells during the 2011 growing season?	

9.		s any additional mainline or lateral pipe used to carry water from the source to the stem in this field? (Include underground pipe. Exclude any system pipe within the selected field.)	
		YES − [Continue]	
			INCHES
	a.	What was the average diameter ( <i>in inches</i> ) of the most common type of this additional pipe used?	1212
			FEET
			1213
	b.	How many feet of this additional pipe were used to bring water to this field?	

H MANAGEMENT H

1.	esponse to higher or more volatile fuel prices during the 2011 crop year barley, did you		
	a.	reduce the number of field operations such as tillage, cultivation, or nutrient	CODE
	u.	and pesticide applications on this field ( <i>i.e.</i> , compared to what you would have	1220
		otherwise applied)? YES = 1	
	b.	reduce the amount of irrigation water on this field (i.e., compared to what you	1222
		would have otherwise applied)?YES = 1	
			1223
	C.	change other production practices on this field? [If yes, specify:] YES = 1	
2.	In r	esponse to higher or more volatile fertilizer prices during the 2011 crop year	
		barley, did you	CODE
	a.	reduce the application rate of commercial nitrogen fertilizer on this field	1224
		(i.e., compared to what you would have otherwise applied)? YES = 1	
		(i) [If YES, ask]	PERCENT
		By what percent did you reduce the amount of commercial	1225
		nitrogen fertilizer applied for 2011?	
	b.	change the type of commercial nitrogen fertilizer products applied on this field	CODE
		(i.e., compared to what you would have otherwise applied)?	1226
		[e.g. less anhydrous ammonia and more UAN] YES = 1	
	c.	increase the application rate of manure or other organic fertilizers on this field	1227
	0.	(i.e., compared to what you would have otherwise applied)? YES = 1	
	d.	manage fertilizer more closely, with such practices as soil testing, split applications,	
	u.	variable rate applications, or soil incorporation on this field ( <i>i.e.</i> , compared to what	1228
		you would have otherwise done)? YES = 1	

### **CONCLUSION**

LC	CATION OF SELECTED FIELD		
1.	I need to locate the selected field of barley on this map.		OFFICE USE COUNTY FIPS CODE
	What county is the selected barley field in?		0010
	Field description		
FC	OR STATES WITH GPS UNITS ONLY	LATITUDE LON	GITUDE
	Field location	w w 0055	
2.	[ENUMERATOR ACTION: Mark map to indicate where to Be sure the "X" marked on me		mm ss
3.	We will need additional information to complete this s or March 2012 to collect it. I'll call you then to set up a		
4.	To receive the complete results of this survey on the r		CODE
	www.nass.usda.gov/results/. Would you rather have a mailed to you at a later date?	a brief summary YES = 1	0099
			нн мм
5.	ENDING TIME [MILITARY]		0005
RE	CORDS USE		
6.	[Did respondent use farm/ranch records to report]		CODE
	a. [fertilizer data?]	YES = 1	0011
	b. [ <b>pesticide</b> data?]	YES = 1	0012
	_		0013
	c. [majority of this <b>expense</b> data?]	YES = 1	
			NUMBER 0041
SU	IPPLEMENTS USED	FERTILIZER APPLICATIONS	0041
7.	[Record the total number of each type of supplement used to complete this interview.]	PESTICIDE APPLICATIONS	0042
		FIELD OPERATIONS	0043
Re	eported by:	Telephone: ()	

	Office Use										
Resp	onse	Respon	dent	Mode		Enum	Eval.	R. Unit	Date	Opt	ional
1-Comp 2-R 3-Inac	9901	1- Op/Mgr 2-Sp 3-Acct/Bkpr 4-Partner 9-Other	9902	2-Tel 3-Face-to-Face	0100	0098	0100	0921	9910	0002	0003
S/E Name	·	,						"			